

## VALUE METHODOLOGY FUNDAMENTALS - COST REDUCTION & QUALITY IMPROVEMENT

“Applying Value Engineering to Maximize Functionality, Reduce Costs, and Improve Quality Across Projects and Operations”

### Schedule

Date	Venue	Fees
22 - 26 Feb 2026	Abu Dhabi, UAE	USD 3495 per delegate
22 - 26 Feb 2026	Doha, Qatar	USD 3495 per delegate
22 - 26 Nov 2026	Doha, Qatar	USD 3495 per delegate

► Available delivery methods: Face-to-Face & Online Training

### Introduction

Value Methodology (VM)—also known as Value Engineering or Value Analysis—is a structured, function-based approach for improving the value of products, services, and processes. By identifying unnecessary costs and enhancing functionality, VM delivers measurable cost savings and performance improvements without sacrificing quality or safety.

This 5-day fundamentals course delivers practical tools and knowledge to lead or participate in value studies. Participants will learn the VM Job Plan, function analysis techniques, creative problem-solving methods, and facilitation skills to drive innovation and optimize value across disciplines.

### Objectives

By the end of this course, participants will be able to:

- Understand the principles and benefits of Value Methodology (VM)
- Apply the VM Job Plan to real-world problems and projects
- Conduct function analysis to define and measure value
- Use creative and analytical tools to develop cost-saving alternatives
- Facilitate and contribute to cross-functional value improvement teams
- Communicate VM outcomes effectively to management and stakeholders

## Why Attend

- Learn a globally recognized method to reduce cost and improve quality
- Gain hands-on experience in function-based problem solving
- Master a structured process used across industries including construction, manufacturing, oil & gas, and public services
- Prepare for certification pathways (e.g. SAVE International® VMA)
- Boost innovation and stakeholder value in your organization

## Target Audience

### This program is designed for:

- Project engineers and design professionals
- Cost engineers and procurement teams
- Quality and process improvement specialists
- Operations, maintenance, and facility managers
- Anyone seeking to improve project or product value

## Individual Benefits

### Key competencies that will be developed include:

- Functional thinking and value analysis
- Team-based problem solving
- Creative and analytical thinking balance
- Presentation of technical cost-saving alternatives
- Structured facilitation and stakeholder engagement

## Organizational Benefits

### Upon completing the training course, participants will demonstrate:

- Lower project and operational costs without reducing quality
- Smarter decision-making based on function and value
- Cross-functional collaboration and creativity
- Early-stage risk reduction and planning clarity
- Clearer communication of cost-quality trade-offs

## Instructional Methodology

### The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – VM principles, job plan steps, and industry applications
- Hands-On Exercises – Function analysis, FAST diagramming, and alternative generation
- Case Studies – Project and product value studies from multiple sectors
- Workshops – Group exercises on cost reduction, idea selection, and evaluation matrices
- Peer Exchange – Team-based brainstorming and solution review
- Tools – Function definition templates, VM checklists, cost-saving logs, scoring tools

## MAWA EVENTS

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## Course Outline

### Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Introduction to Value Methodology and Function Analysis

- **Module 1: Understanding Value and Function** (07:30 – 09:30)
  - What is value? Cost vs. function vs. performance
  - Overview of the VM/VE job plan phases
  - Key terminology and global usage of VM
- **Module 2: Project Selection and Team Formation** (09:45 – 11:15)
  - Criteria for selecting VM study topics
  - Defining project goals, scope, and constraints
  - Team roles: facilitator, recorder, technical experts, and stakeholders
- **Module 3: Function Identification and Classification** (11:30 – 01:00)
  - Verb-noun function format
  - Basic vs. secondary functions
  - Functional thinking and abstraction
- **Module 4: Workshop – Function Analysis Exercise** (02:00 – 03:30)
  - Participants define functions for selected systems and processes

#### Day 2: FAST Diagramming and Creative Phase Planning

- **Module 5: FAST Diagrams (Function Analysis System Technique)** (07:30 – 09:30)
  - Rules and logic of FAST diagram development
  - How-Why logic and horizontal/vertical linkage
  - Creating a functional logic structure
- **Module 6: FAST Diagram Practice** (09:45 – 11:15)
  - Building individual FAST diagrams
  - Interpreting results to identify high-cost, low-worth functions
  - Using diagrams to drive the creative phase
- **Module 7: Preparation for Idea Generation** (11:30 – 01:00)
  - Creative thinking principles
  - Removing barriers to innovation
  - Setup for brainstorming and ideation
- **Module 8: Group Activity – Build a FAST Diagram for a Sample Project** (02:00 – 03:30)

#### Day 3: Creative and Evaluation Phases

- **Module 9: Generating Creative Alternatives** (07:30 – 09:30)
  - Brainstorming tools and lateral thinking
  - Idea fluency and divergence strategies
  - Group brainstorming rules and structure
- **Module 10: Clustering and Filtering Ideas** (09:45 – 11:15)
  - Organizing ideas by system, cost, or function
  - Evaluating feasibility and constraints
  - Preparing for evaluation matrix scoring
- **Module 11: Evaluation Criteria Development** (11:30 – 01:00)
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Creating rating categories: performance, cost, time, risk

- Developing and using scoring matrices
- Ranking alternatives
- **Module 12: Workshop - Creative to Evaluation Pipeline** (02:00 - 03:30)
- Teams brainstorm, cluster, and rate idea sets for functional improvement

#### **Day 4: Development Phase - Building Alternatives into Proposals**

- **Module 13: Developing Value Proposals** (07:30 - 09:30)
- Technical, cost, and implementation analysis
- Detailing chosen alternatives
- Risk review and mitigation planning
- **Module 14: Cost Estimation and Value Metrics** (09:45 - 11:15)
- Cost modeling for proposed alternatives
- Value indices and benefit-cost ratios
- Sensitivity analysis and risk review
- **Module 15: Presenting the Alternatives** (11:30 - 01:00)
- Organizing value study reports
- Tips for technical and executive presentations
- Formatting visuals and comparisons
- **Module 16: Case Study - Develop and Present a Value Proposal** (02:00 - 03:30)

#### **Day 5: Integration, Leadership & Business Case Development**

- **Module 17: Report Writing and Presentation Skills** (07:30 - 09:30)
- Structure of a VM report: summary, analysis, recommendations
- Highlighting cost, function, and implementation value
- Common reporting pitfalls
- **Module 18: Managing Change and Gaining Buy-in** (09:45 - 11:15)
- Selling value proposals to stakeholders
- Aligning with PMO and project objectives
- Lessons learned from rejected proposals
- **Module 19: Final Team Presentations and Feedback** (11:30 - 01:00)
- Group presentation of completed value studies
- Peer and instructor review
- **Module 20: Certification Briefing and Wrap-up** (02:00 - 03:30)
- Summary of tools and next steps for certification
- Feedback, reflection, and course closure

### **Certification**

Participants will receive a **Certificate of Completion in Value Methodology Fundamentals - Cost Reduction & Quality Improvement**, recognizing their capability to apply Value Engineering principles for improved performance, innovation, and cost effectiveness.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

<p><b>In-House / Customized Training</b></p> <p>Interested in running this course for your team?</p> <p>Please contact us:</p>	<p>TEL:</p> <p><b>+601116373203</b></p>	<p>EMAIL:</p> <p><b>info@mawaevents.net</b></p>
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